

Open Center Turbine

Development Stage: Demonstration



Turbine One at Palatka Facility

Product Description

Our open center turbine is in and of itself a generator. Its blade is the rotor and its housing is the stator. When the water rotates the blade, 3 phase electricity is produced directly from its housing.

<i>Product Highlights</i>		
Standard Unit Design Capacity	500 kW	Design Working Environment <input checked="" type="checkbox"/> Natural waterways <input type="checkbox"/> Water transmission systems <input type="checkbox"/> Effluent streams <input checked="" type="checkbox"/> Tidal estuaries <input type="checkbox"/> Near shore ocean <input checked="" type="checkbox"/> Off-shore ocean <input type="checkbox"/> Deep ocean <input checked="" type="checkbox"/> Other ocean current (Gulf Stream)
Other sizes currently available	Yes	
Characteristic Dimension	28 ft	
Rotational Axis Orientation	Horizontal, parallel to flow	

Product Specifications/Details (Standard Unit)

- **Performance Specifications:**

<i>Category</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Units</i>
Flow range	6.5	25	<i>ft³/sec</i>
Hydraulic head range	3	200	<i>ft</i>
Power output range	10	5,000	<i>kW</i>
Waterway depth	36	1,000	<i>ft</i>
Waterway width	50	100,000	<i>ft</i>

- **Efficiency:** Turbine: 59% Total System: 50%

- **Deployment Locations:**

- Saint John's River, Palatka, FL
- Florida Gulf Stream (Palm Beach)

- **Operating History:**

- Prototype 1 (10 ft dia.) was towed (tested) in the Saint John's River, Palatka, FL in 1995
- Prototype 2 (10 ft dia.) was tested in the Florida Gulf Stream (Palm Beach)
- Turbine one (production 10 ft dia.) is currently being tested and should be ready for commercial production in October 2004

- **System Dimensions (feet):** 50 (L) × 12 (W) × 35 (D)

- **Unit Price (U.S. dollars):** \$208,000

Company Contact Information

Company Name	Florida Hydro, Inc.
Mailing Address	171 Comfort Rd. Palatka, FL 32177 US
Website URL	http://floridahydro.com/
Contact's Name	Herbert Williams
Contact's Title	President
Contact's Telephone	386-328-2470
Contact's Fax	386-328-2558
Contact's Email	floridahydro@msn.com

Company Profile

Years in Business	6-10 years
Number of Employees	6-20 employees
Annual Equipment Sales	less than \$1000